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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/550,167	04/14/2000	Hiroaki Sudo	JEL31064	8830
759	90 02/25/2004		EXAM	INER
Stevens Davis Miller & Mosher LLP			PIZARRO, RICARDO M	
Suite 850 1615 L Street N W			ART UNIT	PAPER NUMBER
Washington, DC 20036			2661	
<i>3</i> ,			DATE MAILED: 02/25/200-	6

Please find below and/or attached an Office communication concerning this application or proceeding.

,	Application No.	Applicant(s)			
	09/550,167	SUDO ET AL.			
Office Action Summary	Examiner	Art Unit			
	Ricardo M. Pizarro	2661			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period of - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time, within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 14 Ap	pril 2000.				
·	action is non-final.				
Disposition of Claims					
4) ⊠ Claim(s) 1-18 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1 and 14-16 is/are rejected. 7) ⊠ Claim(s) 2-13,17 and 18 is/are objected to. 8) □ Claim(s) are subject to restriction and/o	wn from consideration.				
Application Papers					
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomplicated any not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Example 11.	epted or b) objected to by the Idrawing(s) be held in abeyance. See iion is required if the drawing(s) is obj	e 37 CFR 1.85(a). lected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage			
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:				

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DETAILED ACTION

Claim Objections

1. Claim 16 is objected to because of the following informalities: In lines 2 and 6 replace the first occurrence of "the" with -a-.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

3. Claims 1 and 16 are rejected under 35 U.S.C. 102(e) as being anticipated by Sano.

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US patent No. 6,381,251 (Sano et al) discloses a data transmission apparatus and receiving apparatus using orthogonal frequency division multiplexing modulation, comprising

An OFDM apparatus comprising a transmitter (Transmitter 200 in Fig. 10) having adder for adding a symbol for synchronization pull-in to a valid symbol (col 5 lines 20-30) and inserter for inserting a correlation value suppression signal immediately after the symbol (col 2 lines 53-59), a receiver (Receiver 201 in Fig. 10) having correlation value calculator for calculating a correlation value using a reception signal and symbol synchronizer for establishing symbol synchronization (correlation of signal contained in receiver, col 8 lines 63-67, col 9 lines 1-7, Fig. 18) by carrying out threshold judgment on the calculated correlation value (col 3 lines 25-34) as an claim 1.

4. Claim 14-15 are rejected under 35 U.S.C. 102(e) as being anticipated by Sano.

US patent No. 6,381,251 (Sano et al) discloses a data transmission apparatus and receiving apparatus using orthogonal frequency division multiplexing modulation, comprising a base station apparatus (elements 200 and 201 in Fig. 10) comprising an OFDM communication apparatus, said OFDM apparatus comprising a transmitter having adder for adding a symbol for synchronization pull-in to a valid symbol (col 5 lines 20-30) and inserter for inserting a correlation value suppression signal immediately after the symbol (col 2 lines 53-59), a receiver (Receiver 201 in Fig. 10) having correlation value calculator for calculating a correlation value using a reception signal and symbol synchronizer for establishing symbol synchronization (correlation of signal contained in receiver, col 8 lines 63-67, col 9 lines 1-7,

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Fig. 18) by carrying out threshold judgment on the calculated correlation value (col 3 lines 25-34), as in claim 14.

Allowable Subject Matter

5. Claims 2-13, 17-18 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claim.

Conclusion

6. Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

(703) 872-9314

(for formal communications intended for entry, for informal or draft communications, please label "PROPOSED" or "DRAFT")

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington. VA., Sixth Floor (Receptionist).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Ricardo Pizarro** whose telephone number is (703) 305-1121. The examiner can normally be reached on Monday-Friday from 9:00 AM to 5:30 PM. The fax number for this Group is (703) 872-9314.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **Douglas Olms**, can be reached on (703) 305-4703.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 305-4700.

February 19, 2004

Ricardo M. Pizarro

DOUGLAS OLMS

Dougless W. Chr.

SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2600